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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/673,140	09/30/2003	Christopher Evans	19111.0126	3825
9800 7590 11/19/2008 Hanify & King, P.C. 1875 K Street Suite 707 WASHINGTON, DC 20006			EXAMINER	
			MAHMOOD, REZWANUL	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/673 140 EVANS ET AL. Office Action Summary Examiner Art Unit REZWANUL MAHMOOD 2164 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 15 October 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date. \_\_\_

6) Other:

5) Notice of Informal Patent Application

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## DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/15/08 has been entered. Claims 1-9 are pending in this office action.

# Claim Objections

Claim 1 is objected to because of the following informalities:

In claim 1 line 6, the phrase "could be" is objected to because it describes an optional condition.

Appropriate correction is required.

# Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. §101 because the claimed method is not tied to a particular machine.

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### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filled in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filled in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Levine (US Patent 6,640,221).

With respect to claim 1, Levine discloses a computer-implemented method of preventing execution of unnecessary joins between tables in a database, the method comprising the steps of:

- a. presenting a Structured Query Language (SQL) statement to the database, the SQL statement referring directly to a set of tables in the database (Levine: Abstract, lines 1-14; Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Figures 1, 2, 6; Here a Structured Query Language statement is presented to the database using a query tool, which has the scope that extends to a set of tables in the database and returns a result);
- b. preparing a list of tables that could be user to return the set of results but that are not directly referred to by the SQL statement, wherein the list of

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tables is the only list prepared (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the query tool prepares a list of tables that are related to returning the set of results but that are not directly referred to by the SQL statement, the user selects the tables from the list which will be referred directly by the SQL statement):

- c. removing tables that must be accessed in order to return the set of results from the list in accordance with a predetermined set of rules (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2, and 8; Here the tables that will be used by the SQL statement are selected from the list):
- d. preventing execution of joins involving any of the tables remaining in the list, wherein there is at least one table remaining in the list (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2, and 8; Since the tables required by the SQL statement are selected from the original list, the rest of the tables in the list do not participate in the SQL statement and are prevented from participating in execution of joins); and
- returning a set of results from the database based on the SQL statement (Levine: Abstract, lines 1-14; Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Figures 1, 2, 6).

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With respect to claim 2, Levine discloses a computer-implemented method according to claim 1, wherein the predetermined set of rules includes allowing removal of a table from the list if the table is part of a join chain (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the tables that will be used by the SQL statement are selected from the list).

With respect to claim 3, Levine discloses a computer-implemented method according to claim 1, wherein the predetermined set of rules includes a rule allowing removal of a table from the list if the table forms the detail table in a join between a master table and a detail table (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the tables that will be used by the SQL statement are selected from the list).

With respect to claim 4, Levine discloses a computer-implemented method according to claim 1, wherein the predetermined set of rules includes a rule allowing removal of a table from the list if detail item values might not exist in a master table joined to a detail table (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the tables that will be used by the SQL statement are selected from the list).

With respect to claim 5. Levine discloses a computer-implemented method

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according to claim 1, wherein the predetermined set of rules includes a rule allowing removal of a table from the list if the table has a mandatory filter (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the tables that will be used by the SQL statement are selected from the list).

With respect to claim 6, Levine discloses a computer-implemented method according to claim 4, wherein the predetermined set of rules further includes a rule preventing removal of a table from the list that would otherwise be allowed, if the join is an outer join on a master table (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the tables that will be used by the SQL statement are selected from the list).

With respect to claim 7, Levine discloses a computer-implemented method according to claim 5, wherein the predetermined set of rules further includes a rule preventing removal of a table from the list that would otherwise be allowed, if the join is an outer join on a master table (Levine: Column 4, lines 1-39; Column 5, lines 61-67; Column 6, lines 1-33; Column 13, lines 43-67; Column 14, lines 1-9; Figures 1, 2; Here the tables that will be used by the SQL statement are selected from the list).

With respect to claim 8, Levine discloses a computer program comprising computer program code means adapted to perform the steps of claim 1 when said

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program is run on a computer (Levine: Column 5, lines 25-30).

With respect to claim 9, Levine discloses a computer program product comprising program code means stored on a computer readable medium for performing the method of claim 1 when said program product is run on a computer (Levine: Column 5, lines 25-36).

#### Remarks

Applicant incorporates the discussion of Levine and the arguments disputing the Examiner's assertions discussed in the previous Response filed July 14, 2008. Examiner responded to the incorporated remarks and arguments in the Office Actions mailed on July 25, 2008 and April 14, 2008.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Gutierrez-Rivas reference (US Patent 6,553,371) teaches about selecting table joins. The Kumar reference (US Publication 2003/0088548) teaches about extracting data from a database using a reduced query.

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#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to REZWANUL MAHMOOD whose telephone number is (571)272-5625. The examiner can normally be reached on M - F 10 A.M. - 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Rones can be reached on (571)272-4085. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. M./ Examiner, Art Unit 2164

/Charles Rones/

Supervisory Patent Examiner, Art Unit 2164

November 15, 2008